



Sand Geophysics Limited
Unit 15 The Sidings
Hound Road
Netley Abbey
SO31 5QA

info@sandgeophysics.com

Position Description:

Working predominantly independently, the computational geophysicist will participate in the maintenance and development of SAND Geophysics' suite of in-house geophysical software (QSI and QSI-3D).

Projects will initially focus on magnetic datasets and development of a new suite of tools. Longer term there will be opportunities to work with a broad range of geophysical data, including: multibeam echosounder, sidescan sonar, magnetometer, sub-bottom profiler, single channel, multi-channel and 3d-seismic. Projects will include rapid code modification/development to address challenges associated with a specific data set, as well as longer-term code development to match SAND Geophysics' research and development strategy.

Where appropriate, there will be opportunities to work on active projects, including the potential for taking an active role in the acquisition, processing and reporting of data as part of particularly complex and/or large projects.

Additionally, there will be opportunities for involvement in research and development projects linked to one or more Universities, which may include the supervision of research students at MSc, MRes and/or PhD level. Associated opportunities to publish results as peer reviewed manuscripts and present results at national and international conferences will be encouraged where data permissions allow.

All short-listed applications will be expected to complete a test coding exercise prior to interview, including provision of commented code.

Major Areas of Responsibility:

- Maintenance and development of existing algorithms
- Development of new algorithms
- QC & Testing algorithms
- Assist in processing and interpretation of geophysical datasets
- QA/QC of geophysical datasets
- Assist in data management & reporting
- Promote the safety and health of the workforce
- Assist with marketing and managing client relationships
- Assist with training of other staff members

Requirements:

- Extensive experience coding for geophysical applications (examples will be required)
- Ability to code in C and C++ as a minimum (test exercise will be provided)
- Familiarity with Linux and Linux-related operating systems, including csh and bash scripting
- Familiarity with common geophysical data processing/handling software, such as Generic Mapping Tool, Seismic Unix, Madagascar, etc



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- Experience with a range of geophysical datasets (multibeam echosounder, sidescan sonar, magnetometry and seismic)
- Appropriate level of industry experience and relevant qualifications
- UK citizen or right to work in UK

Working Arrangements:

- Working at SAND's offices in Netley Abbey and remotely where appropriate.
- Typical work pattern Monday to Friday 09:00 to 17:00
- Flexible hours when not on worksites
- 12hr shifts on worksites